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Rick Lehrbaum

 July 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

 Full text available: [html\(8.60 KB\)](#) Additional Information: [full citation](#), [index terms](#)


2 [Papers: Tactile user interface: Phidgets: easy development of physical interfaces through physical widgets](#)

Saul Greenberg, Chester Fitchett

 November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

 Full text available: [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Physical widgets or *phidgets* are to physical user interfaces what widgets are to graphical user interfaces. Similar to widgets, phidgets abstract and package input and output devices: they hide implementation and construction details, they expose functionality through a well-defined API, and they have an (optional) on-screen interactive interface for displaying and controlling device state. Unlike widgets, phidgets also require: a connection manager to track how devices appear on-line; a ...



3 [Linux in a Scientific Laboratory](#)

Przemek Klosowski, Nick Maliszewskyj, Bud Richardson

 July 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

 Full text available: [html\(29.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The authors tell us how they use Linux daily to fulfill the requirements of their lab



4 [Future of simulation: Future of simulation software: the current and future status of simulation software \(panel\)](#)

Robert Diamond, James O. Henriksen, C. Dennis Pegden, Anthony P. Waller, Charles R. Harrell, William B. Nordgren, Matthew W. Rohrer, Averill M. Law



December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available:  pdf(208.66 KB) Additional Information: [full citation](#), [abstract](#)

In this panel, principal members of seven leading simulation-software companies discuss two important questions concerning the current and future status of simulation software.

5 Are you interested in computers and electronics?



David Abramson, Gordon Lowe, Peter Atkinson

December 2000 **Proceedings of the Australasian conference on Computing education ACSE '00**

Publisher: ACM Press

Full text available:  pdf(560.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Secondary school students, when investigating tertiary study, have little opportunity to discover what a particular course has to offer and often have a poor understanding of employment options in that field. Further, many secondary schools have limited resources, and are thus unable to provide career advice in any detail.

Whilst University Open Days' are a good opportunity for information seeking, we often experience parents driving the direction of the student's choice.

6 Simulation of advanced manufacturing systems



Gerald W. Evans, William E. Biles, Michael W. Golway

December 1994 **Proceedings of the 26th conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available:  pdf(838.39 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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1 [Re-usable software design for programmable logic controllers](#)



Flavio Bonfatti, Gianni Gadda, Paola Daniela Monari

 November 1995 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1995 workshop on Languages, compilers, & tools for real-time systems LCTES '95**, Volume 30 Issue 11

Publisher: ACM Press

Full text available: pdf(955.71 KB)

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It is the aim of this paper to present a model conceived for supporting the initial, critical phases of PLC software life cycle, namely requirement specification, requirement analysis and software design, to obtain reusable code. The model, named EASIER, is based on an object-oriented paradigm where the message-method mechanism is replaced by the law and action primitives, since they are more suitable to cope with the real-time, cyclic nature of PLC software. Software re-usability is pursued by ...

2 [A sortation system model](#)



Arun Jayaraman, Ramu Narayanaswamy, Ali K. Gunal

 December 1997 **Proceedings of the 29th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(577.53 KB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [AutoMod product suite tutorial \(AutoMod, Simulator, AutoStat\) by AutoSimulations](#)



Matthew Rohrer

 December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1**

Publisher: ACM Press

Full text available: pdf(151.78 KB)

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4 [Software/modelware tutorials I: AutoMod product suite: AutoMod tutorial](#)



Matthew W. Rohrer

 December 2000 **Proceedings of the 32nd conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(528.90 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#)

Whether designing a new system or modifying an existing one, engineers want to take the guesswork out of finding the best possible solution. While there are many analysis methods for designing industrial systems, simulation remains the method that gives the highest level of confidence a system will work. A well-written simulation model can be a valuable tool in the design, analysis, and operation of manufacturing and other complex systems. The *AutoMod*™ Product Suite from AutoSimulati ...

5 Simulation-based scheduling: Dynamic scheduling II: SIMUL8-planner simulation-based planning and scheduling

Kieran H. Concannon, Kim I. Hunter, Jillian M. Tremble

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(494.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper provides an introduction to the technique of simulation-based production planning and scheduling, a fast growing and popular area in the simulation industry. SIMUL8 and Visual8 Corporations have collaborated to develop a new software application called SIMUL8-Planner that assists in the development of this type of system. The following document outlines some of the requirements, advantages, and features within this exciting new product.

6 Software/modelware tutorials a: Maximizing simulation ROI with AutoMod: maximizing simulation ROI with AutoMod

Matthew W. Rohrer

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(525.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Simulation modeling and analysis requires an investment in human resources and software. And the rewards from using simulation are significant. Many companies fine tune their operations and reduce waste using simulation. But in the end, every time modeling and analysis are performed, a decision has to be made whether the simulation is "worth doing" (Waite 1999). In this paper we will enumerate how AutoMod has been used to improve return on investment (ROI) from simulation.


7 Robotics



F. L. Lewis, M. Fitzgerald, K. Liu

March 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(164.42 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

8 Software/modelware tutorials a: AutoMod: simulating reality using AutoMod

Matthew W. Rohrer, Ian W. McGregor

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(348.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Decision making in industry has become more complicated in recent years. Customers are more demanding, competition is more fierce, and costs for labor and raw materials continue to rise. Managers need state-of-the-art tools to help in planning, design, and operations of their facilities. Simulation provides a virtual factory where ideas can be tested and performance improved. The AutoMod product suite from Brooks-PRI Automation has been used on thousands of projects to help engineers and mana ...

9 Software/modelware tutorials: AutoMod: the AutoMod product suite tutorial

Brian Stanley

December 2001 **Proceedings of the 33rd conference on Winter simulation**

Publisher: IEEE Computer Society

Full text available:  pdf(290.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Whether designing a new system or modifying an existing one, engineers want to take the guesswork out of finding the best possible solution. While there are many analysis methods for designing industrial systems, simulation remains the method that provides the highest level of confidence that a system will perform. A well-written simulation model can be a valuable tool in the design, analysis, and operation of manufacturing and other complex systems. The *AutoMod* Product Suite from Brooks ...

10 Linux in a Scientific Laboratory

Przemek Klosowski, Nick Maliszewskyj, Bud Richardson

July 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  html(29.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The authors tell us how they use Linux daily to fulfill the requirements of their lab

11 Risk on the rails



Peter G. Neumann

July 1993 **Communications of the ACM**, Volume 36 Issue 7

Publisher: ACM Press

Full text available:  pdf(864.84 KB) Additional Information: [full citation](#), [index terms](#)

12 Testing I: Blowtorch: a framework for firewall test automation



Daniel Hoffman, Kevin Yoo

November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**

Publisher: ACM Press

Full text available:  pdf(127.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Firewalls play a crucial role in network security. Experience has shown that the development of firewall rule sets is complex and error prone. Rule set errors can be costly, by allowing damaging traffic in or by blocking legitimate traffic and causing essential applications to fail. Consequently, firewall testing is extremely important. Unfortunately, it is also hard and there is little tool support available. Blowtorch is a C++ framework for firewall test generation. The central construct is the ...

Keywords: automated testing, capture/replay, covering array, network firewall, production grammar

**Risks to the public: Risks to the public in computers and related systems**

Peter G. Neumann

May 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 3**Publisher:** ACM PressFull text available: [pdf\(1.92 MB\)](#) Additional Information: [full citation](#)**14 Manufacturing applications: Simulation of factory operations: simulation in daily factory operation: 'setting the line bogey in Augusta'**

Gordon D. Rehn

December 2000 **Proceedings of the 32nd conference on Winter simulation****Publisher:** Society for Computer Simulation InternationalFull text available: [pdf\(149.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The John Deere Augusta Works uses discrete event simulation in predicting assembly line output as a function of varying model and option mix quantities in daily production schedules. The most unique aspect of this application is not necessarily how it is used but who uses the model. Prior to each production day, a Union representative executes the model, and the simulation results establish the target production goal for the day. Day-to-day wages are based on the actual production attained relat ...

**15 Q Focus: RFID: Integrating RFID**

Sanjay Sarma

October 2004 **Queue**, Volume 2 Issue 7**Publisher:** ACM PressFull text available: [pdf\(1.09 MB\)](#) [html\(28.58 KB\)](#) Additional Information: [full citation](#), [index terms](#)**16 Formal interpreters for diagram notations**

Luciano Baresi, Mauro Pezzè

January 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 1**Publisher:** ACM PressFull text available: [pdf\(834.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The article proposes an approach for defining extensible and flexible formal interpreters for diagram notations with significant dynamic semantics. More precisely, it addresses semi-formal diagram notations that have precisely-defined syntax, but informally defined (dynamic) semantics. These notations are often flexible to fit the different needs and expectations of users. Flexibility comes from the incompleteness or informality of the original definition and results in different interpretations ...

Keywords: Semi-formal notations, graph transformation, high-level Petri nets, semantics



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Sanjay Sarma

October 2004 **Queue**, Volume 2 Issue 7**Publisher:** ACM Press

Full text available: pdf(1.09 MB)

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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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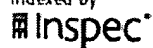
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Fusion Engineering, 1997. 17th IEEE/NPSS Symposium
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Digital Object Identifier 10.1109/FUSION.1997.687748
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Cordero Diaz, A.;
Intelligent Control, 1997. Proceedings of the 1997 IEEE International Symposi
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Volume 9, Issue 4, Oct. 1996 Page(s):52 - 57
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Honchell, J.W.; Robertson, T.L.;
Frontiers in Education Conference, 1996. FIE '96. 26th Annual Conference., Pt
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